Claims

What is claimed is:

- 1. Light-refracting, color-enhancing compositions for applying coatings to a substrate, comprising a mixture of (a) pelletized rubber and (b) transparent or translucent glass plastic beads having a diameter up to about 70μ and (c) a resinous binder material which cures to form a hard, translucent, light-refracting paint layer.
- 2. A coating composition according to claim 1 in which the beads have a maximum diameter within the range of about 10 to 20 microns.
- 3. A coating composition according to claim 2 in which the maximum diameter is between 12 and 18 microns.
- 4. A coating composition according to claim 1 in which the beads are clear glass and have a refractive index between about 1.5 and 2.5.
- 5. A coating composition according to claim 4 in which the refractive index is between about 1.9 and 2.1.
- 6. A coating composition according to claim 4 in which the glass beads comprise a mixture of beads having different refractive indexes.
- 7. A coating composition according to claim 1 in which the pelletized rubber particles have a diameter up to about 150μ .

- 8. A coating composition according to claim 1 in which the pelletized rubber content is between about 2% and 40% by weight.
- 9. A coating composition according to claim 1 in which the binder material comprises a mixture of a prepolymer having reactive sites, and a poly-functional cross-linking agent which is reactive with said sites to cure the binder material.
- 10. A coating composition according to claim 1 in which the resinous binder material contains a volatile solvent or vehicle which is evaporated to dry the coating below the baking temperature of the paint composition.
- 11. A coating composition according to claim 10 in which the volatile solvent is an organic solvent, and the coating composition has a solids content above about 60%.
- 12. A coating composition according to claim 10 in which the volatile vehicle is water.
- 13. A coating composition according to claim 1 in which the glass bead content is between about 10-20% by weight of the composition.
- 14. Process for applying a light-refractive, color-enhancing coating to a substrate comprising the steps of (1) spraying said substrate with a coating composition comprising (a) at least 2% by weight of pelletized rubber and (b) at least about 10% by weight of transparent or translucent glass beads having a diameter up to about 70μ and (c) a curable resinous binder material; (2) heating the coating, if necessary to evaporate any volatile

solvent or vehicle, and (3) drying the coating to cure the resinous binder material and form a light-refracting coating containing the pelletized rubber and the glass beads which refract, scatter and dissipate applied light within the cured coating and which is firmly bonded to said substrate.

- 15. Process according to claim 14 in which the pelletized rubber particles have a diameter up to about 150 microns.
- 16. Process according to claim 14 in which the pelletized rubber content is up to about 40% by weight of the solids content.
- 17. Process according to claim 14 in which the pelletized rubber content is between about 5% and 20% by weight of the solids content.